

In the Claims

Please amend the claims as detailed herein below:

1. (Currently Amended) In a metal tank coupled with a synthetic resin sheet material, the metal tank having a tank body ~~made of~~ including a metal material, an inlet pipe and an overflow pipe communicating with an upper portion of the tank body, respectively, an outlet pipe and a drain pipe communicating respectively with a lower portion of the tank body, and a ladder installed at an outer wall of the tank body, the metal tank is characterized by comprising:

the tank body constructed of a plurality of ~~a first~~ first unit panels installed to form a bottom surface of the tank body, each of the first unit panels ~~being made by stacking~~ having a synthetic resin sheet material, a first metal plate, and a thermal insulation material stacked in the order, and a plurality of second unit panels installed to correspond to edges of the first unit panels and to form side ~~surfaces and an~~ and upper surfaces of the tank body, each of the second unit panels ~~being made by stacking the~~ having a synthetic resin sheet material, ~~the a~~ first metal plate, ~~the a~~ thermal insulation material, and a second metal plate stacked in the order;

a plurality of stay reinforcement members, ~~respective both ends of which are a~~ first end of each stay reinforcement member installed at edges of the first unit panels forming the bottom surface of the tank body and a second end of each stay reinforcement member installed at corresponding edges of the second unit panels ~~constituting~~ forming a ceiling surface of the tank body;

a plurality of beam reinforcement members, ~~respective both ends of which are~~ first and second ends of each beam reinforcement member installed at ~~opposing~~ corresponding edges of the second unit panels ~~constituting~~ forming the opposing side surfaces of the tank body, each of the respective beam reinforcement members being at least partially welded to the respective its corresponding stay reinforcement member; and

securing means provided to secure the corresponding edges of the adjacent unit panels ~~to the~~ from outside wall of the tank body;

wherein the synthetic resin ~~sheet~~ material is made of a polyethylene, and the first metal plate, the thermal insulation material, and the second metal plate are respectively made of a galvanized iron plate, a foamed urethane, and a painted color steel plate.

2. (Currently Amended) The metal tank coupled with a synthetic resin ~~sheet~~ material according to claim 1, wherein the securing means comprises:

~~an~~ first and second engaging reinforcement plates, each arranged at ~~corners~~ corner area of the adjacent unit panels;

a securing screw for penetrating and securing ~~one side surface of the~~ first engaging reinforcement plate, each of the adjacent unit panels; ~~and, and~~ and the ~~other side surface of the~~ second engaging reinforcement plate in the order; and

a nut secured at an end of the securing screw.

3. (Currently Amended) A unit panel coupled with a synthetic resin ~~sheet~~ material comprising:

an upper surface plate portion;

side surface ~~plates~~ plate portions, each of which is ~~bent~~ extending vertically from side edges of the upper surface plate portion and ~~formed with~~ having a plurality of securing holes; and

at least one tubular securing engagement member ~~provided to penetrate each~~ coupled in a through-hole of the upper surface plate portion and with ~~so that~~ an upper portion surface and a lower portion surface are externally exposed;

wherein the unit panel plate is ~~consisted of the~~ further characterized by a first metal plate made of a painted color steel plate, a thermal insulation material made of a foamed urethane ~~provided at one side~~ disposed on an upper surface of the first metal

plate, and a foamed polyethylene synthetic resin sheet material ~~provided at~~ disposed on an upper surface of the thermal insulation material and ~~at along side~~ edges of the first metal plate so that the thermal insulation material ~~can be arranged~~ is provided between ~~them~~ the first metal plate and the foamed polyethylene synthetic resin material.

4. (Currently Amended) The unit panel with a synthetic resin sheet material according to claim 3, wherein the upper surface of the securing engagement member is hermetically sealed with the foamed polyethylene synthetic resin sheet material.

5. (Currently Amended) In a metal tank coupled with a synthetic resin sheet material, the metal tank having a tank body ~~made of~~ including a metal material, an inlet pipe and an overflow pipe communicating with an upper portion of the tank body respectively, an outlet pipe and a drain pipe communicating respectively with a lower portion of the tank body, and a ladder installed at an outer wall of the tank body, the metal tank is characterized by comprising:

the tank body constructed of a plurality of ~~a first~~ first unit panels installed to form a bottom surface of the tank body, each of the first unit panels ~~being made by stacking~~ having a synthetic resin sheet material, a first metal plate, and a thermal insulation material stacked in the order, and a plurality of second unit panels installed to correspond to edges of the first unit panels and to form side ~~surfaces and an~~ and upper surfaces of the tank body, each of the second unit panels ~~being made by stacking the~~ having a synthetic resin sheet material, ~~the~~ a first metal plate, ~~the~~ a thermal insulation material, and a second metal plate stacked in the order;

a plurality of stay reinforcement members, ~~respective both ends of which are a~~ first end of each stay reinforcement member installed at edges of the first unit panels forming the bottom surface of the tank body and a second end of each stay

reinforcement member installed at corresponding edges of the second unit panels
~~constituting forming~~ a ceiling surface of the tank body;

a plurality of beam reinforcement members, ~~respective both ends of which are first~~
and second ends of each beam reinforcement member installed at opposing
corresponding edges of the second unit panels constituting forming the opposing side
surfaces of the tank body, each of the respective beam reinforcement members being at
least partially welded to the respective its corresponding stay reinforcement member; and

securing means having an engaging reinforcement plate arranged at ~~corners~~
corner area of the adjacent unit panels and ~~formed with having an~~ engagement hole, a
securing screw ~~for penetrating~~ installed in penetration through the engagement hole of
the engaging reinforcement plate, through a through opening of a the securing tubular
engagement member coupled to the adjacent unit panels, and through an engagement
hole of the ~~corresponding another~~ reinforcement member in the order, and a nut secured
at the penetrated end of the securing screw;

wherein the synthetic resin ~~sheet~~ material is made of a foamed polyethylene, and
the first metal plate, the thermal insulation material, and the second metal plate are
respectively made of a galvanized iron plate, a foamed urethane, and a painted color
steel plate.